

Environmental Profile

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804

Ecochain v3.5.64



Product: 3063832 - PP Pipe Cableduct SW BL 110 SN8 L=6
Unit: 1 Piece
Manufacturer: Wavin - SE - Eskilstuna

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 20-06-2022
End of validity: 20-06-2027
Verifier: Harry van Ewijk - SGS Search



This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard.

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin - SE - Eskilstuna (2020). (☑ = module declared, MND = module not declared).

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
☑	☑	☑	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	☑	☑	☑	☑
Product stage					Use stage							End-of-Life stage				
A1 Raw material supply A2 Transport A3 Manufacturing					B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment B6 Operational energy use B7 Operational water use							C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal				
Construction process stage					Benefits and loads beyond the system boundaries											
A4 Transport gate to site A5 Assembly / Construction installation process					D Reuse- Recovery- Recycling- potential											

Environmental impacts and parameters

GWP-total = EF Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF Climate Change - Land use and LU change [kg CO2 eq]; **ODP** = EF Ozone depletion [kg CFC11 eq]; **AP** = EF Acidification [mol H+ eq]; **EP-fw** = EF Eutrophication, freshwater [kg P eq]; **EP-m** = EF Eutrophication, marine [kg N eq]; **EP-T** = EF Eutrophication, terrestrial [mol N eq]; **POCP** = EF Photochemical ozone formation [kg NMVOC eq]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **ADP-f** = EF Resource use, fossils [MJ]; **WDP** = EF Water use [m3 depriv.]; **PM** = EF Particulate matter [disease inc.]; **IR** = EF Ionising radiation [kBq U-235 eq]; **ETP-fw** = EF Ecotoxicity, freshwater [CTUe]; **HTP-c** = EF Human toxicity, cancer [CTUh]; **HTP-nc** = EF Human toxicity, non-cancer [CTUh]; **SQP** = EF Land use [Pt]; **PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials [MJ]; **PERM** = Use of renewable primary energy resources used as raw materials [MJ]; **PERT** = Total use of renewable primary energy resources [MJ]; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; **PENRM** = Use of non-renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of non-renewable primary energy resources [MJ]; **PET** = Total energy [MJ]; **SM** = Use of secondary material [kg]; **RSF** = Use of renewable secondary fuels [MJ]; **NRSF** = Use of non-renewable secondary fuels [MJ]; **FW** = Use of net fresh water [m3]; **HWD** = Hazardous waste disposed [kg]; **NHWD** = Non-hazardous waste disposed [kg]; **RWD** = Radioactive waste disposed [kg]; **CRU** = Components for re-use [kg]; **MFR** = Materials for recycling [kg]; **MER** = Materials for energy recovery [kg]; **EE** = Exported energy [MJ]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.58E+1	6.12E-1	5.51E-1	1.69E+1	2.07E-1	5.99E+0	9.74E-2	-9.60E+0	1.36E+1
GWP-f	kg CO2 eq	1.57E+1	6.11E-1	3.99E-1	1.67E+1	2.07E-1	6.00E+0	9.74E-2	-9.56E+0	1.34E+1
GWP-b	kg CO2 eq	7.15E-2	1.62E-4	1.05E-1	1.77E-1	1.25E-4	-8.29E-3	8.48E-5	-3.36E-2	1.35E-1
GWP-luluc	kg CO2 eq	4.01E-3	2.69E-4	4.64E-2	5.07E-2	7.31E-5	1.16E-3	1.65E-6	-1.85E-3	5.01E-2
ODP	kg CFC11 eq	2.74E-7	1.32E-7	4.52E-8	4.51E-7	4.76E-8	1.51E-7	2.44E-9	-3.53E-7	2.98E-7
AP	mol H+ eq	5.55E-2	8.29E-3	3.38E-3	6.72E-2	1.18E-3	6.33E-3	5.82E-5	-2.69E-2	4.79E-2
EP-fw	kg P eq	2.27E-4	5.07E-6	7.37E-6	2.39E-4	1.70E-6	3.34E-5	7.59E-8	-1.06E-4	1.69E-4
EP-m	kg N eq	9.19E-3	2.33E-3	1.00E-3	1.25E-2	4.21E-4	1.84E-3	3.79E-5	-4.75E-3	1.01E-2
EP-T	mol N eq	1.04E-1	2.58E-2	1.10E-2	1.40E-1	4.64E-3	2.03E-2	2.37E-4	-5.26E-2	1.13E-1
POCP	kg NMVOC eq	4.82E-2	6.92E-3	3.05E-3	5.82E-2	1.33E-3	6.41E-3	8.88E-5	-2.43E-2	4.17E-2
ADP-mm	kg Sb eq	2.11E-4	1.22E-5	1.20E-5	2.35E-4	5.34E-6	2.51E-5	5.87E-8	-6.35E-5	2.02E-4
ADP-f	MJ	5.61E+2	8.82E+0	3.97E+0	5.74E+2	3.17E+0	2.01E+1	1.78E-1	-3.02E+2	2.95E+2
WDP	m3 depriv.	1.10E+1	2.65E-2	2.56E+0	1.36E+1	9.73E-3	3.95E-1	8.91E-4	-5.24E+0	8.80E+0
PM	disease inc.	4.84E-7	4.44E-8	5.70E-8	5.86E-7	1.86E-8	1.04E-7	1.23E-9	-2.25E-7	4.85E-7
IR	kBq U-235 eq	2.83E-1	3.72E-2	1.18E-2	3.32E-1	1.39E-2	6.06E-2	8.27E-4	-1.40E-1	2.67E-1
ETP-fw	CTUe	8.06E+1	7.28E+0	1.11E+1	9.90E+1	2.57E+0	2.27E+1	1.49E-1	-3.73E+1	8.71E+1
HTP-c	CTUh	3.51E-9	2.83E-10	4.37E-10	4.23E-9	9.16E-11	2.73E-9	4.35E-12	-1.59E-9	5.46E-9
HTP-nc	CTUh	9.89E-8	7.52E-9	1.19E-8	1.18E-7	3.07E-9	3.38E-8	9.60E-11	-4.52E-8	1.10E-7
SQP	Pt	1.88E+1	6.00E+0	5.21E-1	2.53E+1	2.71E+0	1.61E+1	4.57E-1	-8.10E+0	3.64E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.95E+0	9.64E-2	2.50E+1	3.31E+1	4.55E-2	9.92E-1	6.91E-3	-3.75E+0	3.04E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.95E+0	9.64E-2	2.50E+1	3.31E+1	4.55E-2	9.92E-1	6.91E-3	-3.75E+0	3.04E+1
PENRE	MJ	6.02E+2	9.36E+0	4.21E+0	6.16E+2	3.37E+0	2.14E+1	1.89E-1	-3.26E+2	3.15E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.02E+2	9.36E+0	4.21E+0	6.16E+2	3.37E+0	2.14E+1	1.89E-1	-3.26E+2	3.15E+2
PET	MJ	6.10E+2	9.46E+0	2.92E+1	6.49E+2	3.41E+0	2.24E+1	1.96E-1	-3.29E+2	3.45E+2
SM	kg	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0
FW	m3	1.65E-1	9.08E-4	6.07E-2	2.27E-1	3.59E-4	1.16E-2	2.20E-4	-7.83E-2	1.61E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.44E-5	1.86E-5	6.04E-6	8.91E-5	8.11E-6	3.27E-5	2.15E-7	-6.94E-5	6.07E-5
NHWD	kg	5.84E-1	4.21E-1	1.85E-2	1.02E+0	1.97E-1	9.86E-1	7.86E-1	-2.33E-1	2.76E+0
RWD	kg	2.44E-4	5.88E-5	1.68E-5	3.20E-4	2.16E-5	7.68E-5	1.16E-6	-1.26E-4	2.93E-4
CRU	kg	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0



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